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| Application No. | Applicant(s) |
|-----------------|--------------|
| 10/604,135      | LIHL ET AL.  |
| Examiner        | Art Unit     |
| Carolyn T Blake | 3724         |

| √  | Rejected |
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| 11 | Allowed  |

|   | (Through numeral)<br>Cancelled |
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| ÷ | Restricted                     |

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| l | Interference | ľ |

| A | Appeal   |
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| Claim   |          |     |           |          |          |          |          |          |                 |            |           |          |     |              |          |          |          |              |          |          |   |          |          |     |          |              |           |          |            |                 |               |        |
|---|----------|-----|-----------|----------|----------|----------|----------|----------|-----------------|------------|-----------|----------|-----|--------------|----------|----------|----------|--------------|----------|----------|---|----------|----------|-----|----------|--------------|-----------|----------|------------|-----------------|---------------|--------|
| E     B     B     B     B     B     E     E     B     E     E     B     E     B   | Cla      | aim | Date      |          |          |          |          |          | Cla             | Claim Date |           |          |     |              |          |          |          |              | Cla      | aim      | Date                                    |          |          |     |          |              |           |          |            |                 |               |        |
| 1   |          | 1   | /25/04    | /10/04   | 9/05     |          |          |          |                 |            |           |          |     |              |          |          |          |              |          |          |   |          |          |     |          |              |           |          |            |                 |               |        |
| 2   |          |     |           |          |          |          | _        |          |                 |            |           | "        |     | L            |          | Ц        | $ \bot $ | $\downarrow$ | _        | 4        | 1                                       | ╛        |          |     |          |              | _         | <u> </u> |            |                 |               |        |
| 3   | <u> </u> |     | -         |          |          |          | <u> </u> | Н        |                 |            | H         | -        |     | -            | Н        | $\dashv$ | -        | -            | -        | +        | +                                       | 4        |          |     | -        | +            | ┿         | ├-       | ├          | $\vdash$        | -             |        |
| A   |          |     |           | _        |          | -        | $\vdash$ | Н        | $\vdash$        |            | H         | -        |     |              | Н        | $\dashv$ | $\dashv$ | $\dashv$     | $\dashv$ | +        | +                                       | $\dashv$ | $\vdash$ |     | +        | +            | ╁         | ⊢        | ┝          | ⊢⊢              | -+            |        |
| 5   | -        |     | _         | _        |          | -        | $\vdash$ | $\vdash$ |                 |            | $\forall$ | -        |     | -            | $\vdash$ | $\dashv$ | $\dashv$ | $\dashv$     | $\dashv$ | $\dashv$ | +                                       | ┥        |          | 104 | +        | +            | +         | $\vdash$ | -          | $\vdash$        | $\dashv$      |        |
| 6   | _        |     | -         | _        |          |          | $\vdash$ | Н        |                 |            | $\vdash$  |          |     | -            | -        |          |          |              | -+       | -        | +                                       | $\dashv$ | <b>-</b> |     | $\dashv$ | +            | ╁╌        | $\vdash$ | $\vdash$   | $\vdash$        | $\dashv$      | _      |
| 107   | <b></b>  |     | -         | _        | _        |          | $\vdash$ | Н        |                 |            | $\dashv$  |          |     | _            |          |          | $\neg$   | $\dashv$     | $\dashv$ | +        | 十                                       | 7        |          |     | $\neg$   | +            | $\top$    | ╁        |            | H               | $\dashv$      | $\neg$ |
| 8   | <b>—</b> |     | +         | 1        |          |          |          |          |                 |            |           |          | 57  |              |          |          |          | ┪            | _        | $\top$   | $\top$                                  | 1        |          | 107 |          | $\top$       | T         |          |            | $\Box$          | $\dashv$      |        |
| 10  |          | 8   | +         | 1        | 1        |          |          |          |                 |            |           |          | 58  |              |          |          |          |              | $\neg$   |          |   |          |          | 108 | $\neg$   | Т            | T         |          |            |                 |               |        |
| 11  |          |     | +         | 1        | 1        | ,        |          |          |                 |            |           |          |     |              |          |          |          |              |          |          |   |          |          |     |          |              |           |          |            |                 |               |        |
| 12  |          |     |           |          | _        |          |          |          |                 |            |           |          |     |              |          |          |          |              |          |          |   |          |          |     |          |              |           |          |            |                 |               |        |
| 13  |          |     |           |          | 1        |          |          |          |                 |            |           |          |     | _            | Ш        |          | _        | $\perp$      | _        |          |   | _        |          |     |          | $\perp$      | _         | L        |            | $\square$       | _             |        |
| 14  | <u> </u> |     | _         |          | $\Box$   |          |          |          |                 |            | _         |          |     | <u> </u>     | Щ        |          | _        | _            | _        | _        | _                                       | 4        |          |     | -        | _            | ╀         | ┞        | _          | $\sqcup$        | _             |        |
| 15  |          |     | Ш         | $\vdash$ | $\sqcup$ | $\dashv$ | $\vdash$ | Н        |                 | $\vdash$   | $\dashv$  | -        |     | <u> </u>     | $\vdash$ |          |          |              |          | +        | +                                       | -        |          |     |          | +            | +         | $\vdash$ | $\vdash$   | $\dashv$        | $\rightarrow$ | _      |
| 16  | <u> </u> |     | $\vdash$  | _        | Н        | $\dashv$ | Н        | Н        | $\vdash$        |            | $\dashv$  | -        | 64  | -            | Н        | $\Box$   | $\dashv$ | $\dashv$     | $\dashv$ | +        | +                                       | $\dashv$ |          | 114 | +        | +            | ╁         | ⊢        | $\vdash$   | $\vdash \vdash$ | _             | _      |
| 17  | -        |     | Н         |          | $\dashv$ |          | -        | Н        | -               |            |           | -        |     | -            | Н        | -        | $\dashv$ | $\dashv$     | $\dashv$ | $\dashv$ | +                                       | $\dashv$ |          |     |          | ╁            | ╁         | ├        | $\vdash$   | $\vdash$        | $\dashv$      | -      |
| 18   19   68   118   119     20   70   120   121     21   71   122   122     22   73   123   122     23   73   123   123     24   74   124   125     25   75   125   125     26   76   126   127     28   78   128   129     29   79   129   129     30   80   130   131     31   81   131   131     32   82   133   131     33   83   133   134     34   84   134   134     35   85   135   136     36   86   135   137     33   88   135   138     39   99   140   141   141     41   91   140   144     42   92   142   143     44   94  | <u> </u> |     | $\vdash$  | -        |          |          | -        | Н        | -               |            |           |          |     |              | Н        | $\vdash$ | $\dashv$ | $\dashv$     | $\dashv$ | +        | +                                       | -        |          |     |          | ╁            | +         | ┢        |            | $\dashv$        | $\dashv$      | -      |
| 19  | -        |     | $\vdash$  | -        | -        |          | Н        | Н        |                 |            | $\dashv$  |          |     |              | -        |          |          | $\dashv$     | _        | -        | +                                       | $\dashv$ | <b></b>  |     | $\dashv$ | ╁            | +         | ╁        | $\vdash$   | 一               | $\dashv$      | _      |
| To   To   To   To   To   To   To   To   |          |     |           |          | $\vdash$ | Н        |          | Н        |                 |            | _         |          |     | $\vdash$     | -        | $\vdash$ | $\dashv$ | $\dashv$     | $\dashv$ | $\dashv$ | 十                                       | _        |          |     |          | ╅            | $\top$    | H        |            | T               | $\neg$        | _      |
| 21   71   72   121   122   123   123   124   123   124   124   124   124   124   124   125   125   125   125   126   126   127   127   127   127   127   128   128   129   129   130   130   130   130   130   130   130   130   130   130   131   131   131   131   131   132   132   132   132   133<   |          |     |           |          |          |          |          |          |                 |            |           |          |     |              | _        |          | $\neg$   | $\neg$       | $\dashv$ | _        |   |          |          | 120 | $\top$   | $\top$       | T         | T        | $\vdash$   | 一               | $\dashv$      |        |
| 22     122     123     124     124     124     124     124     124     124     125     125     125     125     125     126     127     126     127     127     128     129     128     129     128     129     129     129     129     130     130     130     131     131     131     131     132     132     132     132     132     133     133     133     133     133     133     134     135     136     136     136     136     137     137     138     138     139     139     140     141     141     141     141     141     142     142     143     144  |          |     |           |          |          |          | $\Box$   |          |                 |            |           |          |     |              |          |          | $\neg$   | $\neg$       | $\neg$   |          |   |          |          |     |          | 1            | $\top$    | $\vdash$ |            |                 | $\neg$        | _      |
| 24     124     124     125     125     125     126     125     126     126     126     127     126     127     127     128     129     129     129     129     129     129     129     130     130     130     131     131     131     131     131     131     132     132     133     133     133     133     133     133     133     133     134     134     134     134     134     134     134     135     136     136     137     137     138     138     138     138     138     138     138     138     138     138     138     138     139     140     141     141     141     142     142     142     142     142     143     144     144     144     144     144     144     144     144     145     146     146     146     147     148     148     148     148     149     149     149  |          | 22  |           |          |          |          |          |          |                 |            |           |          | 72  |              |          |          |          | Ī            |          |          |   |          |          | 122 |          |              |           |          |            |                 |               |        |
| 25     125     126     126     126     126     127     126     127     127     128     127     128     127     128     129     129     129     129     130     130     131     131     131     131     131     131     131     132     132     132     132     132     133     133     133     133     133     133     134     134     134     135     135     136     136     137     137     136     137     137     138     138     138     138     139     139     140     141     141     141     141     141     142     142     142     143     144     144     144     144     145     145     146     146     146     147     148     148     149     149     149     149     149     149     149     149     149     149     149     149     149     149     149     149     149     149  |          |     |           |          |          |          |          |          |                 |            |           |          |     |              |          |          | $\Box$   |              | $\Box$   |          |   |          |          |     |          |              |           |          |            |                 |               |        |
| 26     76     126     127     128     127     128     127     128     128     128     129     129     129     129     130     130     131     131     131     131     131     131     132     132     132     133     133     133     133     133     133     133     133     133     134     134     134     134     134     134     134     135     135     135     136     136     136     137     138     138     138     138     138     139     140     140     140     141     141     141     142     143     143     143     144     144     144     144     144     144     144     144     145     146     147     147     148     148     148     148     148     148     149     149     149     149     149     149     149     149     149     149     149     149     149     149   |          |     |           |          |          |          |          |          |                 |            |           | <u> </u> |     | L            |          | $\Box$   | _        | _            | _        | _        | _                                       | _        |          |     |          | 1            | <u> </u>  | _        | lacksquare | <u> </u>        | _             |        |
| 27     28     77     128     128     128     128     128     129     129     130     130     130     130     130     130     130     130     130     130     131     131     132     132     132     133  | <u></u>  |     |           |          |          | _        | _        | _        | _               |            |           |          |     | <u> </u>     |          | _        | 4        | 4            | 4        | 4        | _                                       | 4        |          | 125 |          | 4            | ┿         | <u> </u> | _          | $\sqcup$        | _             |        |
| 28   78   128     29   80   129     30   80   130     31   81   131     32   82   132     33   83   133     34   84   134     35   86   135     36   86   136     37   87   137     38   88   138     39   89   139     40   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   96   146     47   97   147     48   98   148     49   99   149   |          |     |           |          |          |          |          |          |                 |            |           |          |     | <u> </u>     |          | $\dashv$ |          |              |          | -        |   | _        |          |     |          | -            | ┼         | <u> </u> | <u> </u>   | $\dashv$        | $\dashv$      | _      |
| 29   79   129     30   80   130     31   81   131     32   82   132     33   83   133     34   84   134     35   85   135     36   86   136     37   88   136     39   88   138     39   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   96   145     46   96   146     47   97   147     48   98   149   |          |     | <u> </u>  |          | Н        | _        | Н        | $\vdash$ |                 |            | $\dashv$  | <u> </u> |     | ⊢            | Н        |          | $\dashv$ |              | $\dashv$ | $\dashv$ | +                                       | _        |          | 127 |          | +            | +         | ⊬        | ├          | $\vdash\vdash$  | $\dashv$      |        |
| 30 80 130   31 32 33   33 83 132   35 85 134   35 85 135   36 86 136   37 87 137   38 88 138   39 89 139   40 90 140   41 91 141   42 92 142   43 94 144   44 95 143   46 96 146   47 97 147   48 98 148   49 99 149  |          |     | Н         |          | $\dashv$ |          | H        |          | $\Box$          | Н          | -         | -        | 70  |              | Н        | -        | $\dashv$ | -            | $\dashv$ |          | +                                       | -        |          | 120 |          | ┽            | ╁╌        | ├        | -          | ⊢⊢              | $\dashv$      | _      |
| 31 32   33 34   35 36   37 38   39 40   41 91   42 92   43 94   44 95   46 96   47 98   48 99   148 149   | -        |     | Н         |          | $\dashv$ | $\dashv$ | Н        |          | $\vdash$        | Н          | $\dashv$  | -        |     | ⊢            | Н        | $\dashv$ |          | $\dashv$     | +        | +        | +                                       | $\dashv$ |          |     | +        | +            | +         | ╁        | ⊢          | $\dashv$        | $\dashv$      | _      |
| 32   82   132   133     33   84   133   134     35   85   135   136     37   86   136   137     38   87   137   137     38   88   138   138     39   90   140   141     41   91   141   141     42   92   142   142     43   93   143   144     44   94   144   144     45   95   145   146     47   97   147   148     48   98   148   149   |          |     | Н         |          | -        | $\vdash$ | $\vdash$ |          | $\vdash$        |            | $\dashv$  |          |     | ┢            | -        | $\dashv$ | $\dashv$ |              | -        | -        | +                                       | -        | -        |     | $\dashv$ | +            | ╁         | ╁        | ┢          | $\dashv$        | $\dashv$      | _      |
| 33   34   35   36   35   36   37   38   37   38   39   38   39 <td< td=""><td></td><td></td><td></td><td></td><td>-</td><td><math>\neg</math></td><td>-</td><td></td><td></td><td></td><td><math>\dashv</math></td><td>···</td><td></td><td></td><td>-</td><td><math>\dashv</math></td><td>寸</td><td>T</td><td></td><td><math>\dashv</math></td><td><math>\dashv</math></td><td>-</td><td></td><td></td><td></td><td>╁</td><td>T</td><td>T</td><td>T</td><td>Πİ</td><td>寸</td><td>_</td></td<> |          |     |           |          | -        | $\neg$   | -        |          |                 |            | $\dashv$  | ···      |     |              | -        | $\dashv$ | 寸        | T            |          | $\dashv$ | $\dashv$                                | -        |          |     |          | ╁            | T         | T        | T          | Πİ              | 寸             | _      |
| 34 84   35 85   36 86   37 88   39 88   40 90   41 91   42 92   43 93   44 94   45 96   46 96   47 98   48 99   136 136   137 138   139 139   140 141   141 142   143 144   144 144   145 146   147 147   148 149   |          |     | П         |          | $\neg$   |          |          | П        |                 |            | $\Box$    |          |     |              | П        |          | 一        | T            | 寸        | 十        | $\top$                                  | 7        |          | 133 | $\neg$   | $\top$       | $\dagger$ | Τ        |            | $\Box$          |               | _      |
| 36   86   136     37   88   137     38   88   138     39   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   96   146     47   97   147     48   98   148     49   99   149   |          | 34  |           |          |          |          |          |          |                 |            |           |          | 84  |              |          |          |          |              |          |          | ፗ                                       |          |          | 134 |          | $oxed{oxed}$ | Ĺ         |          |            |                 |               |        |
| 37   88   137     38   88   138     39   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   96   146     47   98   148     49   99   149   |          |     |           |          |          |          |          |          |                 |            |           |          |     |              |          |          | $\Box$   |              |          | $\Box$   | $oldsymbol{oldsymbol{oldsymbol{\Box}}}$ |          |          |     |          | $\perp$      |           |          |            |                 |               |        |
| 38   88   138     39   90   139     40   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   96   146     47   97   147     48   98   148     49   99   149   |          | 36  | Ш         |          |          | $\Box$   |          |          |                 |            |           |          | 86  |              |          |          | $\Box$   | $\Box$       | $\Box$   | $\Box$   | $oldsymbol{\perp}$                      |          | oxdot    | 136 | $\bot$   |              |           |          | igsqcup    | $\Box$          | $\Box$        | _      |
| 39   89   139     40   90   140     41   91   141     42   92   142     43   93   143     44   94   144     45   95   145     46   96   146     47   97   147     48   98   148     49   99   149   | _        |     | Ш         |          |          |          |          |          |                 |            | Щ         |          |     | _            | Ш        | $\sqcup$ |          | _            | _        | _        | _                                       |          |          |     |          | _            | ↓_        | <u>_</u> | <u> </u>   | $\perp$         | _             |        |
| 40 90   41 91   42 92   43 93   44 94   45 95   46 96   47 97   48 98   49 99   |          |     | $\square$ |          |          | _        | Ш        | Ш        |                 | Ш          | $\Box$    |          |     | <u> </u>     | Щ        | $\sqcup$ | _        | 4            | _        | $\dashv$ | 4                                       | _        | <u> </u> | 138 |          | +            | ┼-        | -        | -          | $\vdash \vdash$ | _             |        |
| 41 91   42 92   43 93   44 94   45 95   46 96   47 97   48 98   49 148   49 149   | _        |     | -         | _        |          | $\dashv$ | $\vdash$ |          |                 | $\vdash$   |           | -        |     | <del> </del> | -        | -        |          |              |          | $\dashv$ | -                                       |          | -        |     |          | +            | +         | -        | -          |                 |               |        |
| 42 92   43 93   44 94   45 95   46 96   47 97   48 98   49 99   | -        | 40  | Н         |          |          | -        | Н        | $\vdash$ |                 |            | $\vdash$  | -        | 90  | ⊢            | $\vdash$ | -        | $\dashv$ | $\dashv$     | $\dashv$ | $\dashv$ | - -                                     | -        |          | 140 |          | +-           | +-        | $\vdash$ | $\vdash$   | $\vdash$        | $\dashv$      | _      |
| 43 93   44 94   45 95   46 96   47 97   48 98   49 99   | -        |     | $\vdash$  |          | $\vdash$ | -        | $\vdash$ | $\vdash$ | $\vdash$        |            | $\dashv$  |          |     |              |          | $\dashv$ | $\dashv$ | $\dashv$     | -+       | $\dashv$ | +                                       | $\dashv$ |          |     | $\dashv$ | +            | ╁╌        | $\vdash$ | $\vdash$   | $\dashv$        | $\dashv$      | _      |
| 44 94   45 95   46 96   47 97   48 98   49 99   |          |     | $\vdash$  |          | $\vdash$ | -        | H        | H        | $\vdash \vdash$ | Н          | $\dashv$  | -        | 93  | -            | Н        | $\dashv$ | $\dashv$ | $\dashv$     | +        | $\dashv$ | +                                       | $\dashv$ |          |     | -+-      | +            | +         | $\vdash$ | $\vdash$   | $\dashv$        | $\dashv$      | _      |
| 45 95   46 96   47 97   48 98   49 99   |          |     | H         |          | H        | $\vdash$ | Н        | Н        | $\vdash$        |            | $\dashv$  |          |     | $\vdash$     | H        | $\vdash$ |          | +            | +        | $\dashv$ | +                                       | $\dashv$ |          |     | -        | +            | +         | 一        | $\vdash$   | $\vdash$        | ᆉ             |        |
| 46 96   47 97   48 98   49 148  | -        | 45  | Н         |          | Н        | $\vdash$ | Н        | $\vdash$ |                 |            | $\dashv$  | -        | 95  | 1            | Н        |          | $\dashv$ | -            | $\dashv$ | $\dashv$ | 十                                       | $\dashv$ | <u> </u> | 145 | $\dashv$ | ┪            | †-        | Н        |            | $\sqcap$        | $\dashv$      | _      |
| 47  |          |     | H         | -        | H        | $\dashv$ | П        | Н        | $\vdash$        |            | $\dashv$  |          |     | <u> </u>     | Н        | $\Box$   | 一        | $\dashv$     | 1        | 十        | 十                                       | ヿ        |          |     | $\dashv$ | $\top$       | $\top$    | Т        |            | $\Box$          | $\neg$        | _      |
| 48  |          | 47  |           |          |          |          |          |          |                 |            |           |          | 97  |              |          |          |          | ╛            |          |          |   | <b>1</b> |          | 147 |          | 1            |           |          |            |                 |               | _      |
| 49  |          |     |           |          |          |          |          |          |                 |            |           |          | 98  |              |          |          |          |              |          |          |   |          |          | 148 |          | $\perp$      |           |          |            |                 |               | _      |
|   |          |     | Ш         |          |          |          |          | Ш        |                 |            |           |          | 99  |              |          | Ш        | [        |              | _[       |          |   | _        |          | 149 |          | $\perp$      |           | L        |            | Ш               |               |        |
|   | L        | 50  | Ш         |          |          | لـــا    | L        | Ш        |                 |            | $\square$ |          | 100 | L            |          | Ш        | $\perp$  |              |          |          | 丄                                       | ┙        |          | 150 | Ш_       |              |           | <u></u>  | <u></u>    | Ш               | $\perp$       |        |